

## Product datasheet for **RR210080**

### Olr710 (NM\_001000571) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Olr710 (NM\_001000571) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Olr710  
**Synonyms:** ratchr3-73951132-73950188\_ORF  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210080 representing NM\_001000571  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGGAGAGAATAACAATGTCACAGAATTTGTTCTCTGGCCTCACTCAGGATCCTACTGGACAAAAG  
 CATTGTTTGTGTCATGTTTTGCTCATGTACATTGTGACAATTGTGGCAACCTGCTCATTGTGGGACAGT  
 GATTGCCAGCCCCTCCTGAATCCCAATGTACTTCTCCTTGCTTTTCTGTCACCTCATGGATGCTGTT  
 TATTCCACTGCCATCTTGCCCAAGTTGCTTAAAGACTTAGTTTGTGATAAAAAGACCATCTTTTCACAG  
 CTTGCTGGTTCAGCTTTTTGTAGAGCACTTATTTGGTGGTGCTGAGGTCTTCTTCTGGTGGTATGGC  
 CTATGATCGCTATGTAGCTATTTGTAAGCCACTGCATTATTTAACCACCATGAATCAACAGGTTTGTATC  
 TCACTTTTGGTGGTAGCCTGGGTTGGAGGATTTGCACATGCTCTAGTTCAAGTTCCTCTGTATATAAAC  
 TTCCTTTCTGTGGACCTAATGTCATTGACCACTTTGGCTGTGACATGTATCCATTATTGGCACTTGTGTG  
 CACTGACACTTACTTTATTGGCCTCACAGTAGTTGCCAATAATGGAGCCATGTGTATGATAGTCTTTGTC  
 CTTCTTCTATTCTCCTATGGAATTATCTTAAGCTCCCTAAGACTCACAGTCAGGAAGGAAGCGCAAGG  
 CTTGTCCACCTGCAGCTCCACATTATGGTGGTTGTCCTTTTCTTTGTTCCCTGCATATTCATGTATGT  
 TAGACCTGTCTCAACTCCCTATTGATAAATCTATTTCTGTTTTTATACAGCTATCACTCCCATGTTG  
 AATCCTTAATATACATTGAGAAATTCAGAGATTAATAAATCTATGGGAAAGCTCTGGTATAAAATGA  
 TAAGTATAGGGAGAGTAAGAATTTTGCATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210080 representing NM\_001000571  
 Red=Cloning site Green=Tags(s)

MGENNNVTEFVLLGLTQDPTGQKALFVMFLMYIVTIVGNLLIVGTVIASPSLNSPMYFFLAFLSLMDAV  
 YSTAILPKLLKDLVCDKKTISFTAQLVQLFVEHLFGGAEVFLLVVMAYDRYVAICKPLHYLTTMNOQVCI  
 SLLVVAWVGGFAHALVQVLVSYKLPFCGPNVIDHFHGCDMYPLLALVCTDTYFIFGLTVVANNGAMCMIVFV  
 LLLFSYGIILSSLKTHSQEGRRKALSTCSSHIMVVVLFVPCIFMYVRPVSNFPIDKSISVFYTAITPML  
 NPLIYTLRNSEIKNSMGKLWYKMI SIGRVRIFAC

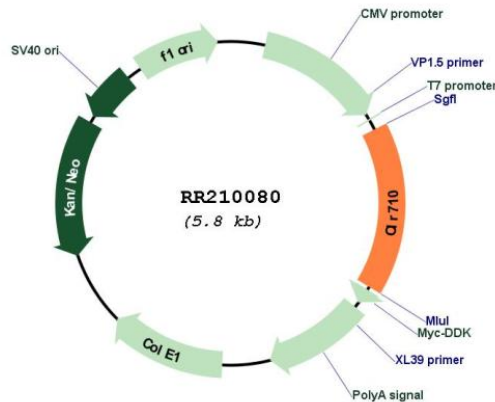
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001000571

**ORF Size:** 942 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001000571.1</a> , <a href="#">NP_001000571.1</a>
<b>RefSeq Size:</b>	945 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	366113
<b>Cytogenetics:</b>	3q24
<b>MW:</b>	35 kDa
<b>Gene Summary:</b>	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]